### SDG COVER PAGE

Lab Name: Allian	ce Technical Group, LLC	Contrac	t: 68HERH20D001	1
Lab Code: ACE	Case No.: 51821	MA No.:		SDG No.: MJNKA
SOW No.: SFAM01	.1			
EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Met ICP-MS Me	chod rcury Cyanide
MJNKA0	P5363-01		X	
MJNKA2	P5363-02		X	
MJNKA3	P5363-03		X	
MJNKA4	P5363-04		X	
MJNKA5	P5363-05		X	
MJNKA6	P5363-06		X	
MJNKA6D	P5363-07		X	
MJNKA6S	P5363-08		X	
MJNKB6	P5363-09		X	
MJNKC4	P5363-10		X	
MJNKG9	P5363-11		X	
MJNKH0	P5363-12		X	
MJNKJ0	P5363-13		X	
MJNLE3	P5363-14		X	
MJNLF9	P5363-15		X	
MJNLG0	P5363-16		X	
contract, both tec n the SDG Narrati of the data contai submitted has been	es data package is in concentrated and for complete. The concentration of the concentration o	teness, for o l integration mplete SDG Fi	ther than the co s have been peer le and in the el	onditions detailed r-reviewed. Release ectronic data
Signature:		Nan	ne:	

\_\_\_\_\_ Title:

Date:

Page 1 of 2

USEPA CLP COC (LAB COPY)

DateShipped: 12/19/2024 CarrierName: FedEx AirbillNo: 7709 1759 8009

CHAIN OF CUSTODY RECORD

Case #: 51821 Cooler #: 18

No: 10-121924-142955-0022

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 908-728-3151

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	-
MJNKAO	MJNKA0	Sediment/ SB	Grab	ICP-MS(21)	1292 (< 6 C) (1)	2	OU6-SS-TR1A- 0.0-0.33
MJNKA2	MJNKA2	Sediment/ SB	Grab	ICP-MS(21)	1294 (< 6 C) (1)	2	OU6-SS-TR2A- 12/17/2024 12:00 0.0-0.33
MJNKA3	MJNKA3	Sediment/ SB	Grab	ICP-MS(21)	1295 (< 6 C) (1)	2	OU6-SS-TR2B- 12/16/2024 10:05 0.0-0.33
MJNKA4	MJNKA4	Sediment/ SB	Grab	ICP-MS(21)	1296 (< 6 C) (1)	0	OU6-SS-TR3A- 12/17/2024 11:10 0.0-0.33
MJNKA5	MJNKA5	Sediment/ SB	Grab	ICP-MS(21)	1297 (< 6 C) (1)	0	OU6-SS-TR3B- 12/13/2024 11:30 0.0-0.33
MJNKA6	MJNKA6	Sediment/ SB	Grab	ICP-MS(21)	1298 (< 6 C) (1)	0	OU6-SS-TR3C- 0.0-0.33
MJNKB6	MJNKB6	Sediment/ SB	Grab	ICP-MS(21)	1308 (< 6 C) (1)	0	OU6-SS-TR7B- 0.0-0.33
MJNKC4	MJNKC4	Sediment/ SB	Grab	ICP-MS(21)	1316 (< 6 C) (1)		OU6-SS-TR12- 0.0-0.33
MJNKG9	MJNKG9	Sediment/ SB	Grab	ICP-MS(21)	1361 (< 6 C) (1)	-	OU6-SS-YB15- 0.0-0.33
MJNKHO	MJNKHO	Sediment/ SB	Grab	ICP-MS(21)	1362 (< 6 C) (1)		ОU6-SS-YB01- 12/13/2024 09:35 0.0-0.33

16;W 2 15-2024		(Contraction)	Date/Time	Received by (Sign	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
12/18/18/W A 1/5- 12-26 2024	tems/Reason	Relinquished by (Signature and Organization)	Date/Time	Naccived by (oil)	9	paya	18.6 July
		CA TANK	1 x /0/16/	CON A	it.	12.20 202	IR COUN # 1
Temp BIL Persent			1000				CUSTODY Seal
							Temp Ble Persen

Sample(s) to be used for Lab QC: MJNKA6 Tag 1298

0543460, 0543459

Samples Transferred From Chain of Custody #

Shipment for Case Complete? N

Page 2 of 2

# USEPA CLP COC (LAB COPY)

DateShipped: 12/19/2024

Case #: 51821

CHAIN OF CUSTODY RECORD

No: 10-121924-142955-0022 Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 908-728-3151

Dateonipped: 12.16.1				Case #: 0 0 1			Lab - lollo	
CarrierName: FedEx	8009			Cooler #. 10			Calloction	For Lab Use
AirbillNo: 7708 1708 0000		-	2	Analysis/Turnaround	Tag/Preservative/Bottles	Location	Date/Time	Only
Sample Identifier	CLP Sample No.	Matrix/Sampler	Method	(Days)	1372 (< 6 C) (1)	OU6-SS-YB10-	12/13/2024 08:50	
MJNKJO	MJNKJO	Sediment/ SB	ğ		1665 (HNO3 pH<2) (1)	1	12/12/2024 10:20	PA 1.0
MUNIE3	MJNLE3	Water/ SB	Grab	ICP-MS(21)	1677 (HNO3 pH<2) (1)	OU6-MIA-EB-	72/13/2024 12:50	
MJNLF9	MJNLF9	Water/ SB	Grad	ICP-MS(21)	1678 (HNO3 pH<2) (1)	₩ H	12/16/2024 12:45	٠
		Water/ SB AW	Grab	ICP-MS(21)		200		
MJNLG0	MJNLGO	vvater ob, ov						
Special Instructions: Analysis Key: ICP-N Items/Reason	ns: Relinquisher	Special Instructions:  OS434  Analysis Key: ICP-MS=CLP Metals (As, Cu, Pb, Zn)-Sediment  Items/Reason Relinquished by (Signature and Organization)	05434 Sediment Organization)	0 S 4 3 4 6 0 , 0 S 4 3 4 S 9 η-Sediment Date/Time Received by 18/19 βγ 1600	Received by (Signature and Organization)	Shipment for Case Complete? N Shipment for Case Complete? N Samples Transferred From Chair Sample Co O949 12-20-2024 12-14 12-17 12-19 12-	Shipment for Case Complete? N Shipment for Case Complete? N Samples Transferred From Chain of Custody # Sample Condition Upon Re O949 12-20-2024  CUSTO by See  12-10-2024  Temp BC ferres	mplete? N From Chain of Custody # From Chain of Custody #  Temp 2.8:  Temp 3.8:  Temp 3.8:  Temp 3.8:  Temp 4.8:  Temp 4.8:  Temp 4.8:  Temp 4.8:  Temp 8.8:  Temp 8.

# FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group		Page_1_of_
Received By (Print Name)	osa Peña	Log-in Date 12/20/2024
Received By (Signature)		
Case Number 51821	SDG No. MJNKA0	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	0543460,0543459
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	770917598009 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.8 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	12/20/2024
12.Time Received	09:49

		1			
			Correspondi	ng	
		Aqueous Water	,		Remarks: Condition of Sample
	EPA Sample #	Sample	Sample Tag #	Assigned Lab #	Shipment, etc.
1	MJNKAO	N/A	1992 1292 /	P5363-01	Intact
2	MJNKA2	N/A	1994 1294	P5363-02	Intact
3	МЈИКАЗ	N/A	1995 1295	P5363-03	Intact
4	MJNKA4	N/A	1996 1296	P5363-04	Intact
5	MJNKA5	N/A	1997 1297	P5363-05	Intact
6	MJNKA6	N/A	1998 1298 W	P5363-06	Intact
7	MJNKA6D	N/A	1998 1298	P5363-07	Intact
8	MJNKA6S	N/A	1998 1298	P5363-08	Intact
9	мликв6	N/A	1308	P5363-09	Intact
10	мјикс4	N/A	1316	P5363-10	Intact
11	MJNKG9	N/A	1361	P5363-11	Intact
12	мликно	N/A	1362	P5363-12	Intact
13	мэмкэо	N/A	1372	P5363-13	Intact
14	MJNLE3	1.0	1665	P5363-14	Intact
15	MJNLF9	1.0	1677	P5363-15	Intact
16	MJNLG0	1.0	1678	P5363-16	Intact
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	V/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

## \* Contact SMO and attach record of resolution

Reviewed By	(V)	Logbook No.	N/A
Date	12/2024	Logbook Page No.	N/A

# FORM DC-2 COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	Alliance Tech	nical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51821	SDG NO.	MJNKA0	
MA NO.		SOW NO.	SFAM01.1	
				<del></del>

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

, , , , , , , , , , , , , , , , , , , ,				
	PAGE	NOs:	СН	ECK
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	<b>✓</b>	
4. CSF Inventory Sheet (DC-2)	5	7	<b>✓</b>	
5. SDG Narrative	8	11	<b>✓</b>	
6. Communication Logs	NA	NA	<b>✓</b>	
7. Percent Solids Log	12	13	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	<b>✓</b>	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
Instrument Logbooks  13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA_	✓	
Instructions 14. Extraction Logs for TCLP and SPLP	NA	NA		
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	14	27	✓	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	28	1116	✓	
Other Data				
19. Standard and Reagent Preparation Logs	1117	1261	<b>√</b>	
20. Original Preparation and Cleanup forms or copies of Preparation and	1262	1265	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	1266	1275	✓	
Instrument Logbooks  22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA_	✓	
11100140010110				

	PAGE 1	NOs:	СН	ECK
	FROM	TO	LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA		
24 . Raw GPC Data	NA	NA		
25 . Raw Florisil Data	NA	NA		
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA		
or sample analysis, laboratory QC as applicable 27. Instrument raw data by instrument in analysis order	NA .	NA	_	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	<b>✓</b>	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA		
30 . Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
Instrument Logbooks 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33 . Raw GPC Data	NA	NA	<b>√</b>	
34 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA	✓	
or sample analysis, laboratory QC as applicable 36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	<b>✓</b>	
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA_	NA	✓	
Instructions 41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	<b>✓</b>	·
43 . Raw Florisil Data	NA	NA	✓	

			PAGE	NOs:	CH	HECK
			FROM	TO	LAB	REGION
Additional						
44. EPA Shipp	ping/Receiving Documents					
Airbill	(No. of Shipments)		1276	1276	✓	
Sample Ta	ags		NA	NA	✓	
Sample Lo	og-In Sheet (Lab)		1277	1278	✓	
45. Misc. Shi	ipping/Receiving Records(list all individ	ual records)				-
			NA	NA	_ ✓	
	Lab Sample Transfer Records and Tracking	Sheets				
(describe	e or list)		1279	1280	,	
45 011 5						
	cords and related Communication Logs e or list)					
<u> </u>	•		NA	NA	✓	
40 0						-
48. Comments:	:					
Completed by	:					
(CLP Lab)	(Signature)	Nimisha Pandya, Docume (Print Name & Title)	nt Contro	1 Officer	<u> </u>	+ 0 \
Audited by: (EPA)	(Signature)	(Print Name & Title)			(Da	te)
	(Signature)	(Print Name & Title)			(Da	te)



### **SDG NARRATIVE**

USEPA
SDG # MJNKA0
CASE # 51821
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5363

### A. Number of Samples and Date of Receipt

11 Soil 03 Water samples was delivered to the laboratory intact on 12/20/2024

### **B.** Parameters

Test requested for Metals CLP4 MS = Arsenic, Copper, Lead, Zinc.

Test requested for Metals CLP MS-CLP4 = Arsenic, Copper, Lead, Zinc.

### C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 2.8°C

# D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

### E. Corrective Action taken for above:

Resolution 1 : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

### F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.



### 284 Sheffield Street Mountainside, NJ 07092

### G. Calculation:

### **Calculation for ICP-MS Soil Sample:**

Conversion of Results from µg /L or ppb to mg/kg:

$$Concentration (mg/kg) = C x Vf Vf DF / 1000$$

$$W x S$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)

Vf = Final digestion volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

### **Example Calculation For Sample MJNKA0 For Arsenic:**

If 
$$C = 500.96 \text{ ppb}$$

$$Vf = 500 \text{ ml}$$

$$W = 1.25 g$$

$$S = 0.798(79.8/100)$$

DF = 1

Concentration (mg/kg) = 
$$500.96 \text{ x} \underline{500} \text{ x } 1/1000$$
  
1.25 x 0.798

$$= 251.1077 \text{ mg/kg}$$

= 250 mg/kg (Reported Result with Signification)

### **Calculation for ICP-MS Water Sample:**

Concentration or Result (
$$\mu g/L$$
) = C x Vf x DF

Vi

Where,

C = Instrument value in ppb (The average of all replicate integrations)

Vf = Final digestion volume (mL)

Vi = Initial aliquot amount (mL) (Sample amount taken in prep)

DF = Dilution Factor



### **Example Calculation For Sample MJNLE3 For Arsenic:**

If C = 0.18 ppb  
Vf = 50 ml  
Vi = 50 ml  
DF = 1  
Concentration or Result (
$$\mu$$
g/L) = 0.18 x  $\underline{50}$  x 1  
= 0.18  $\mu$ g/L

# = 0.18 μg/L (Reported Result with Signification)

### H. QA/QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements except for Arsenic, Lead. Serial Dilution did meet requirements.

Internal standard 209Bi(1)was out Side qc limit for sample MJNKA5 in Original so for this sample affected parameters are reported from 2X ilution.

Some samples have % solids results less than 50% but more than 30%. Please see below table for detail. Laboratory has processed these samples according to the SFAM01.1 SOW, Exhibit D, sections 10.1.1.8.

EPA Sample ID	% Solid
MJNKJ0	49.1

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Arsenic	89Y
Copper	45Sc
Lead	209Bi



Zinc	45Sc	

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature	Name: Nimisha Pandya
Date	Title: Document Control Officer



### PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh

Date: 12/23/2024

OVENTEMP IN Celsius(°C): 106

Time IN: 12:50

**In Date:** 12/20/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103

**Time OUT:** 07:45

Out Date: 12/21/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

Qc:LB134043

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Sample	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
P5363-01	MJNKA0	1	1.14	8.79	9.93	8.15	79.7	
P5363-02	MJNKA2	2	1.15	8.83	9.98	7.62	73.3	
P5363-03	MJNKA3	3	1.15	8.74	9.89	7.07	67.7	
P5363-04	MJNKA4	4	1.15	8.82	9.97	7.72	74.5	
P5363-05	MJNKA5	5	1.13	8.80	9.93	9.37	93.6	
P5363-06	MJNKA6	6	1.19	8.41	9.6	6.82	66.9	
P5363-07	MJNKA6D	7	1.19	8.41	9.6	6.82	66.9	
P5363-08	MJNKA6S	8	1.19	8.41	9.6	6.82	66.9	
P5363-09	MJNKB6	9	1.15	8.82	9.97	8.24	80.4	
P5363-10	MJNKC4	10	1.19	8.43	9.62	6.99	68.8	
P5363-11	MJNKG9	11	1.13	8.70	9.83	7.54	73.7	
P5363-12	MJNKH0	12	1.15	8.82	9.97	6.8	64.1	
P5363-13	MJNKJ0	13	1.17	8.81	9.98	5.5	49.1	

# WORKLIST(Hardcopy Internal Chain)

Chotel C/

WorkList ID: 186539

WorkList Name: %1-P5363

Department: Wet-Chemistry

		WorkList ID :	D: 186539	Department :	Wet-Chemistry	Dat	Date: 12-20-20	12-20-2024 12:08:16
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5363-01	MINICAC							
	Obviblin	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	12/17/2024	Chemtech
P5363-02	MJNKA2	Solid	Percent Solids	Cool 4 dea C	LISED04	700		Oc- Dellied
P5363-03	MJNKA3	ri c	Domocratic October		200	22	12/11/2024	Chemtech -SO
D5363.04			reicent Solids	Cool 4 deg C	USEP01	C21	12/16/2024	Chemtech -SO
100000	MJNKA4	Solid	Percent Solids	Cool 4 deg C	USEP01	23	10/17/2003	
P5363-05	MJNKA5	Solid	Percent Solids	Cool 4 dea C	10 TOUR		12/11/2024	Cnemtech -SO
P5363-06	MJNKA6	7900		O Bos	USEPUT	CZJ	12/13/2024	Chemtech -SO
		pilos	Percent Solids	Cool 4 deg C	USEP01	C21	12/13/2024	Chemtech - CO
P5363-07	MJNKA6D	Solid	Percent Solids	Cool 4 dea C	I I SEBO4	200		
P5363-08	MJNKA6S	Solid	Dercent Collide			CZI	12/13/2024	Chemtech -SO
D5262 00			el celle collas	Cool 4 deg C	USEP01	C21	12/13/2024	Chemtech -SO
0000	MJNKB6	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	10/16/0004	
P5363-10	MJNKC4	Solid	Percent Solids	Cool 4 dea C	100 Late		12/10/2024	Chemtech -SO
P5363-11	MJNKG9	1 2 6		o financial control of the control o	OSEROI	C21	12/12/2024	Chemtech -SO
		pilos	Percent Solids	Cool 4 deg C	USEP01	C21	12/16/2024	Chemtech on
P5363-12	MJNKHO	Solid	Percent Solids	Cool 4 dea C	10000		1000	Oc- Income
P5363-13	MJNKJO	13.00			וחבופס	CZI	12/13/2024	Chemtech -SO
		Billoc	Percent Solids	Cool 4 deg C	USEP01	C21	12/13/2024	12/13/2024 Chemtech -SO

Date/Time 12/20124

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

DateTime 12/20/24 (2:15

Raw Sample Relinquished by:

Raw Sample Received by: